Figure 1. Torque vs. Time Chart for Reactive Extrusion of PHBV with HEMA

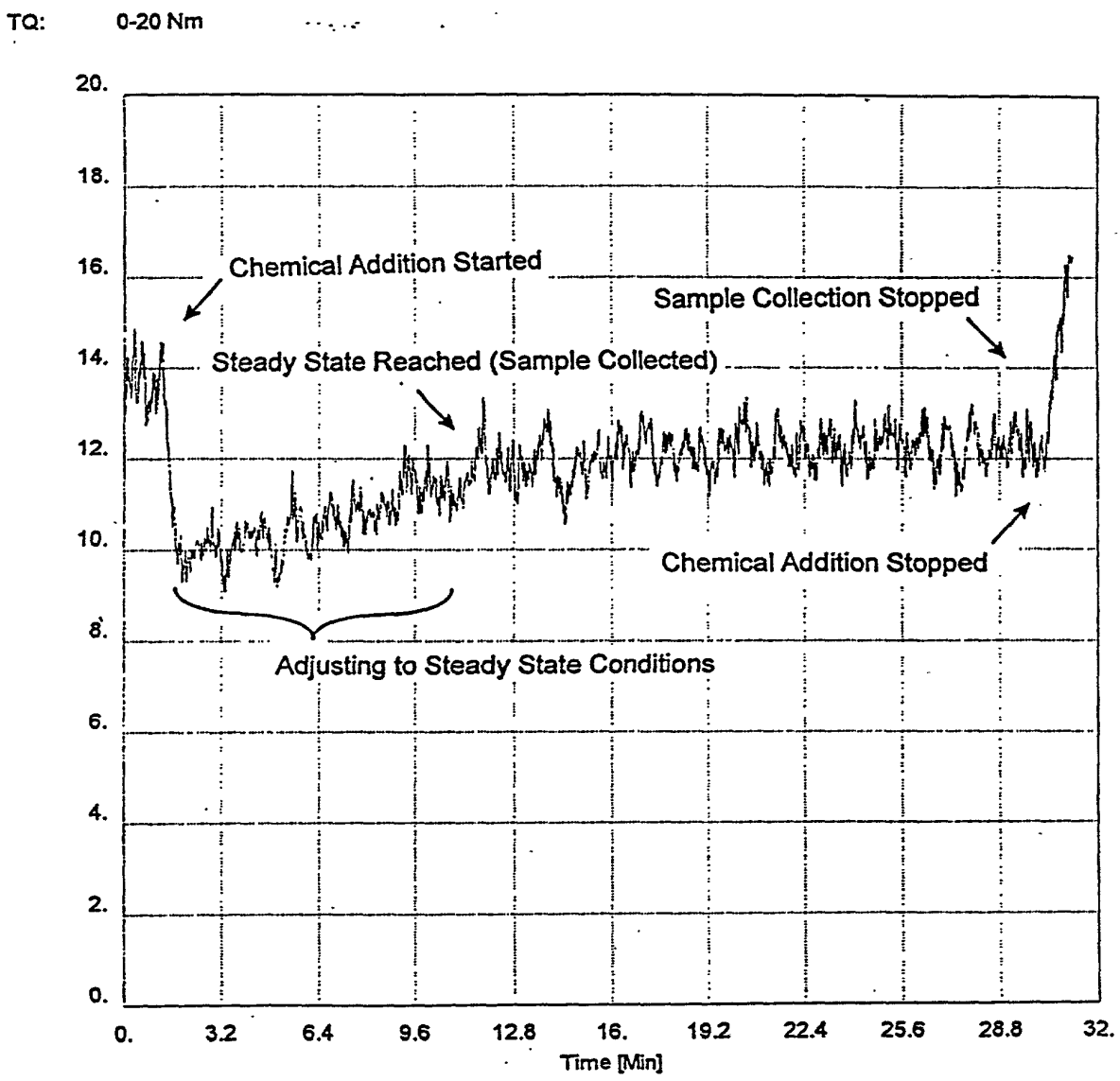
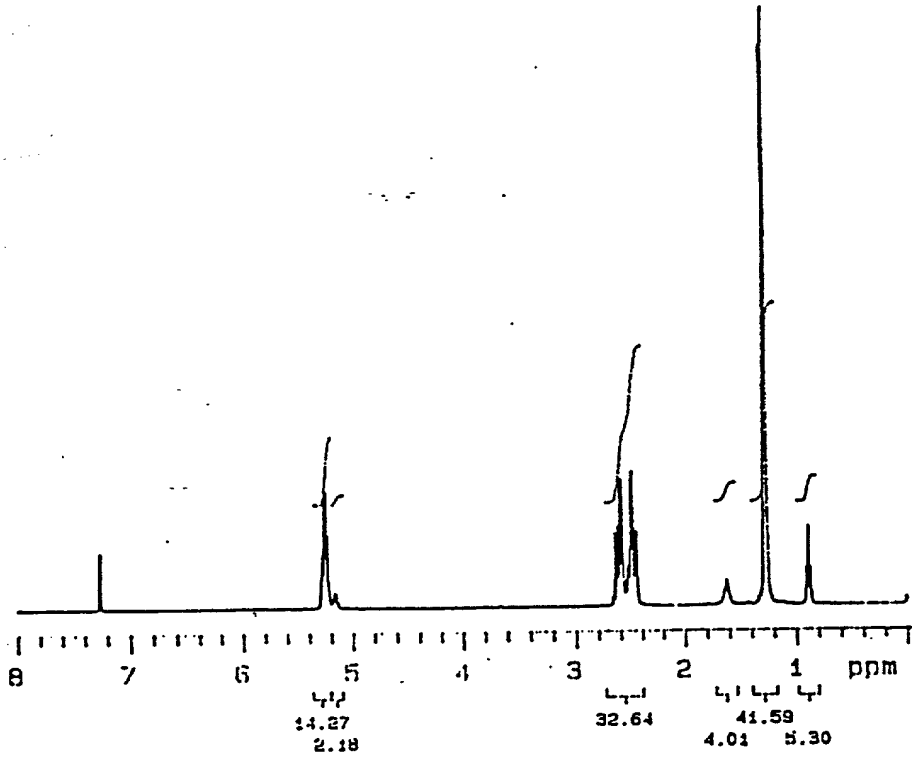
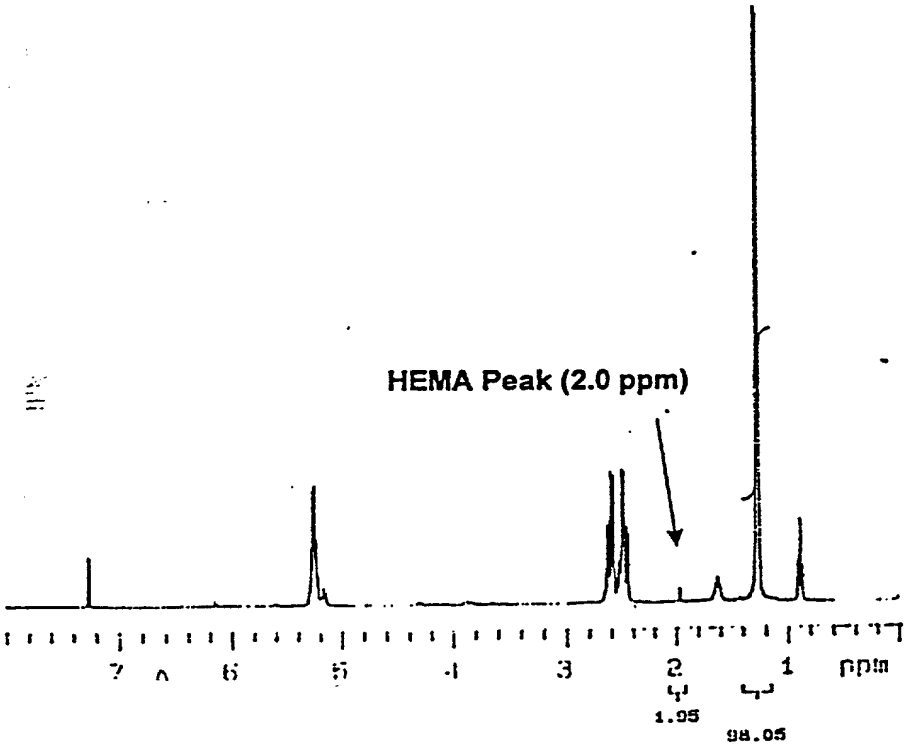


Figure 2. Proton NMR Spectra for PHBV and HEMA Grafted PHBV



PHBV



HEMA Grafted PHB

Figure 3 Melt Rheology at 180°C for PHBV and HEMA Grafted PHBV

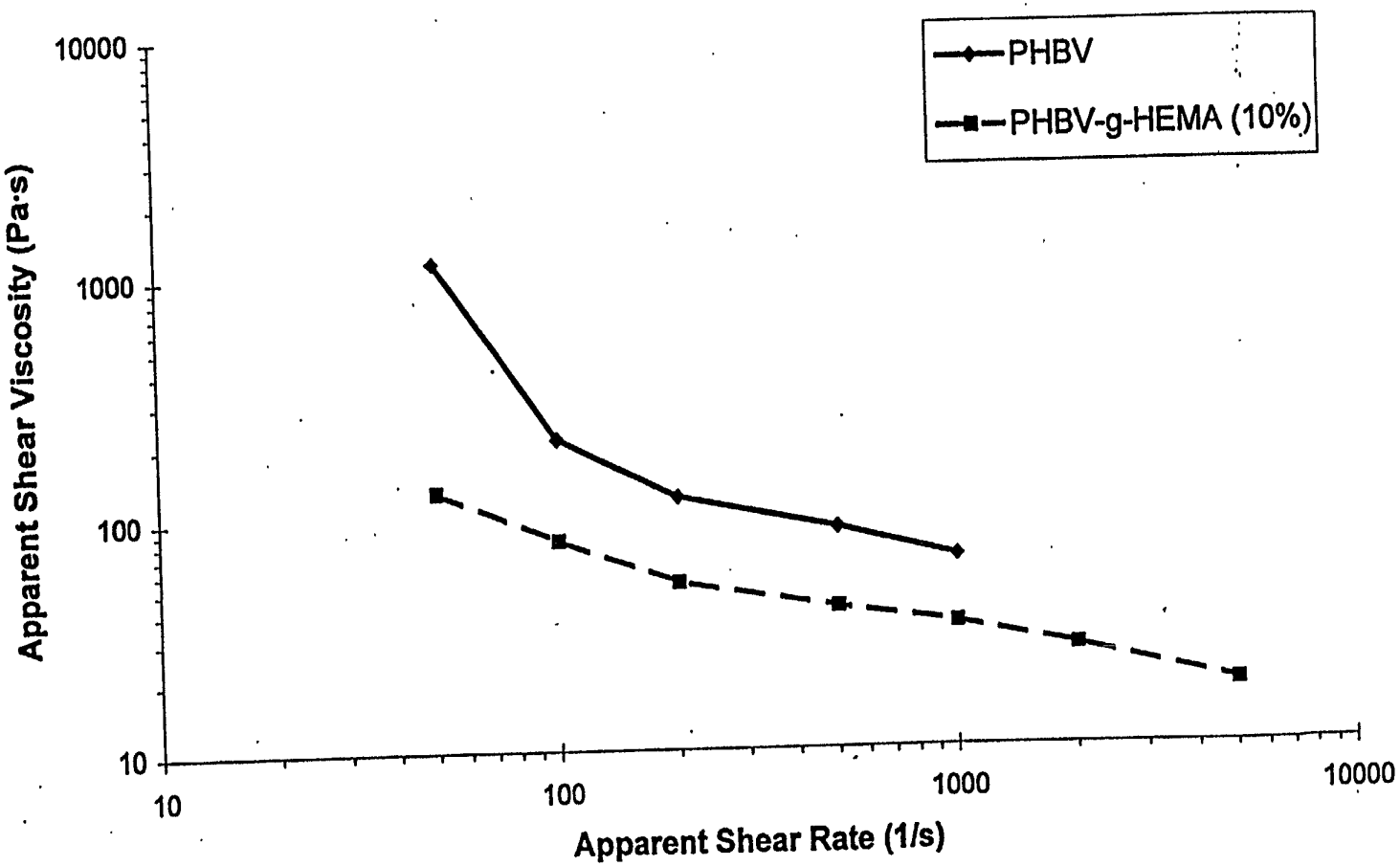
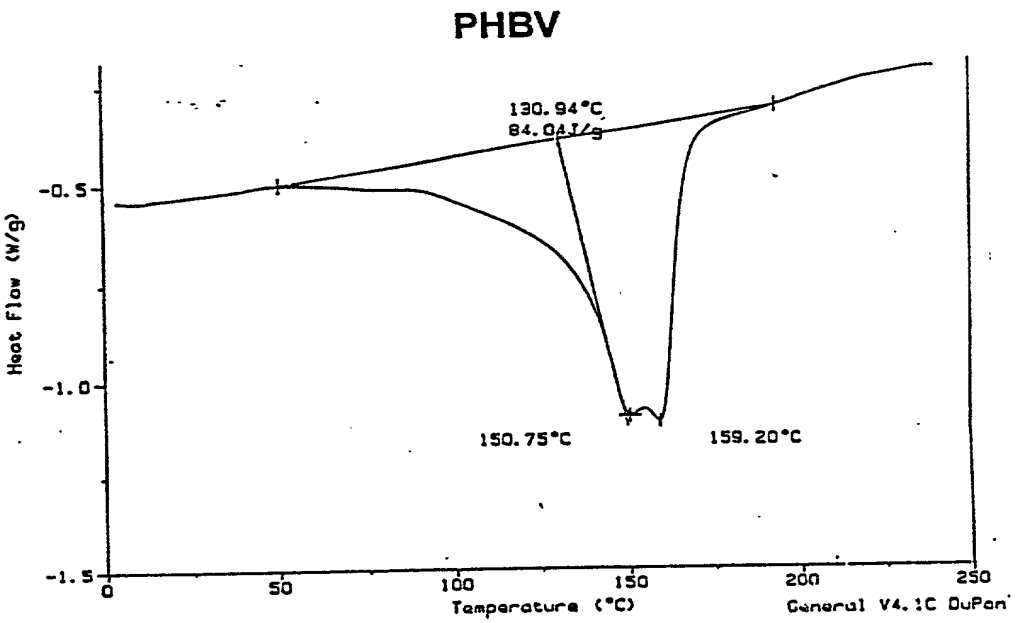


Figure 4 DSC Thermogram for PHBV and HEMA Grafted PHBV



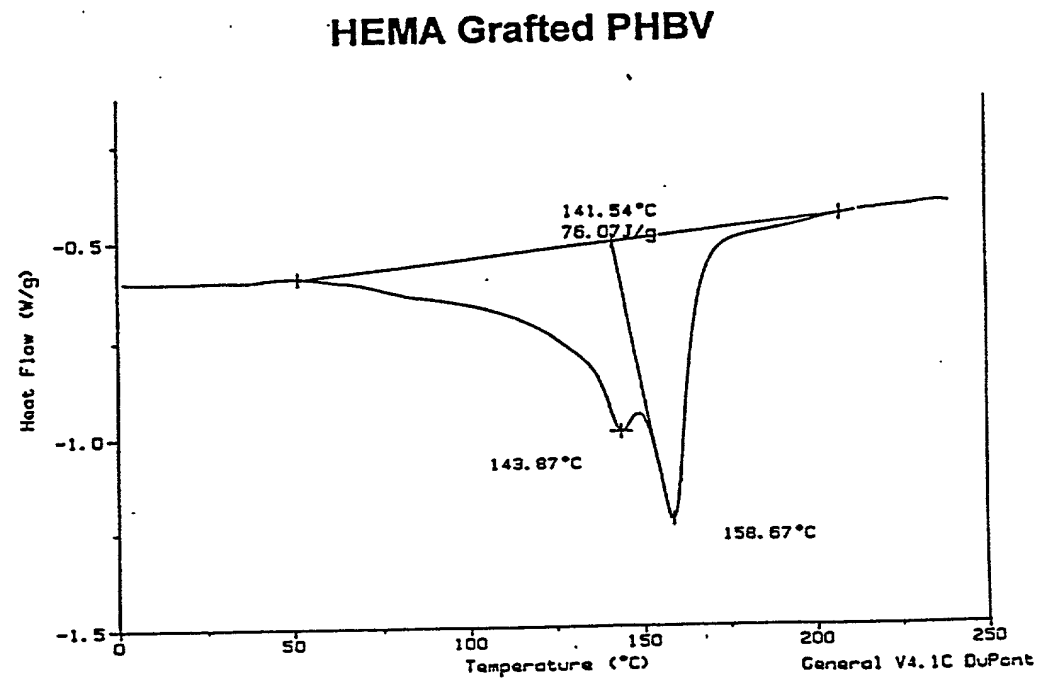


Figure 5 Torque vs. Time Chart for Reactive Extrusion of PBS 1040 with PEGMA on the Haake Extruder

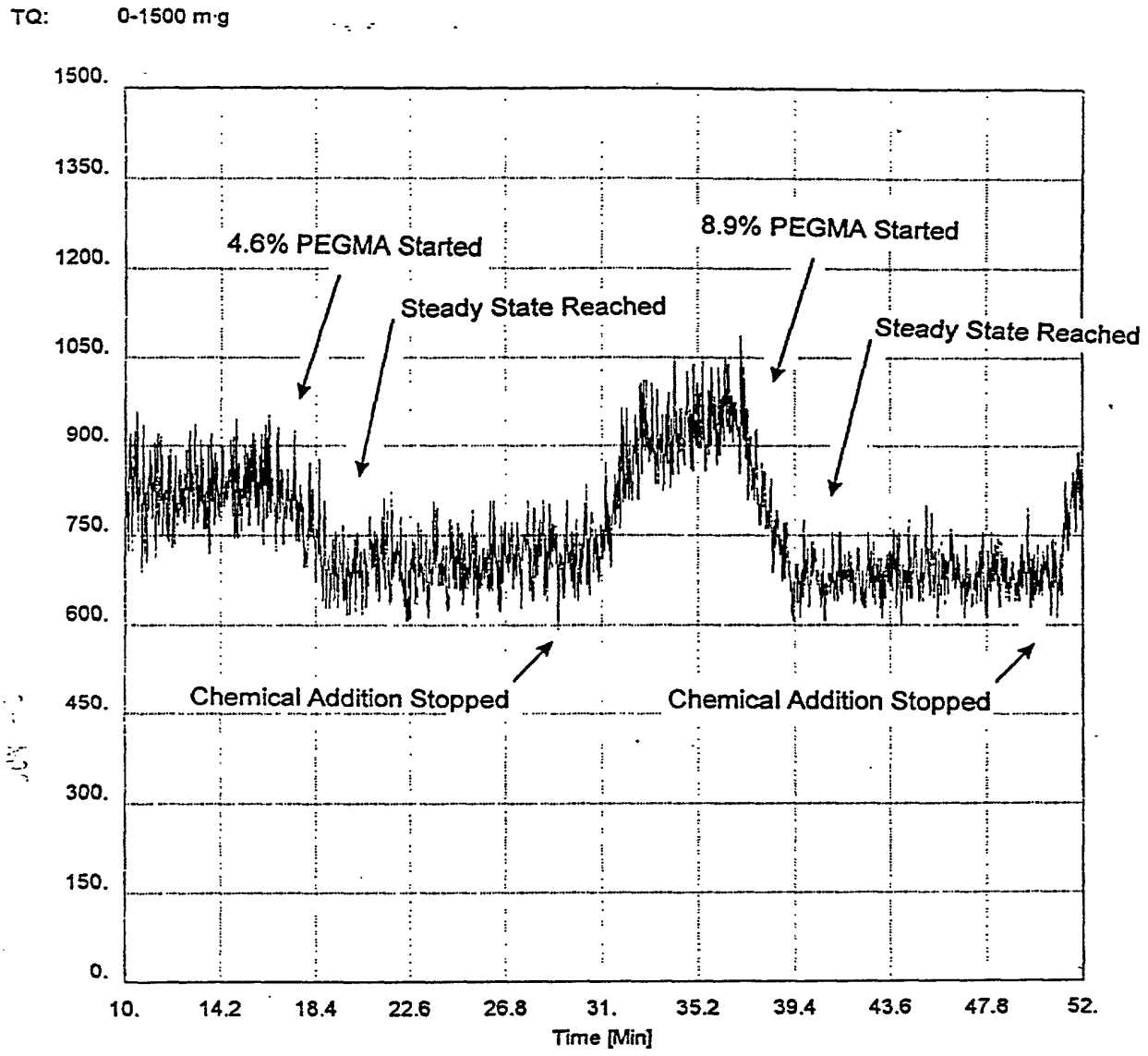


Figure 6 Proton NMR Spectra for PBS and PEGMA Grafted PBS 1040

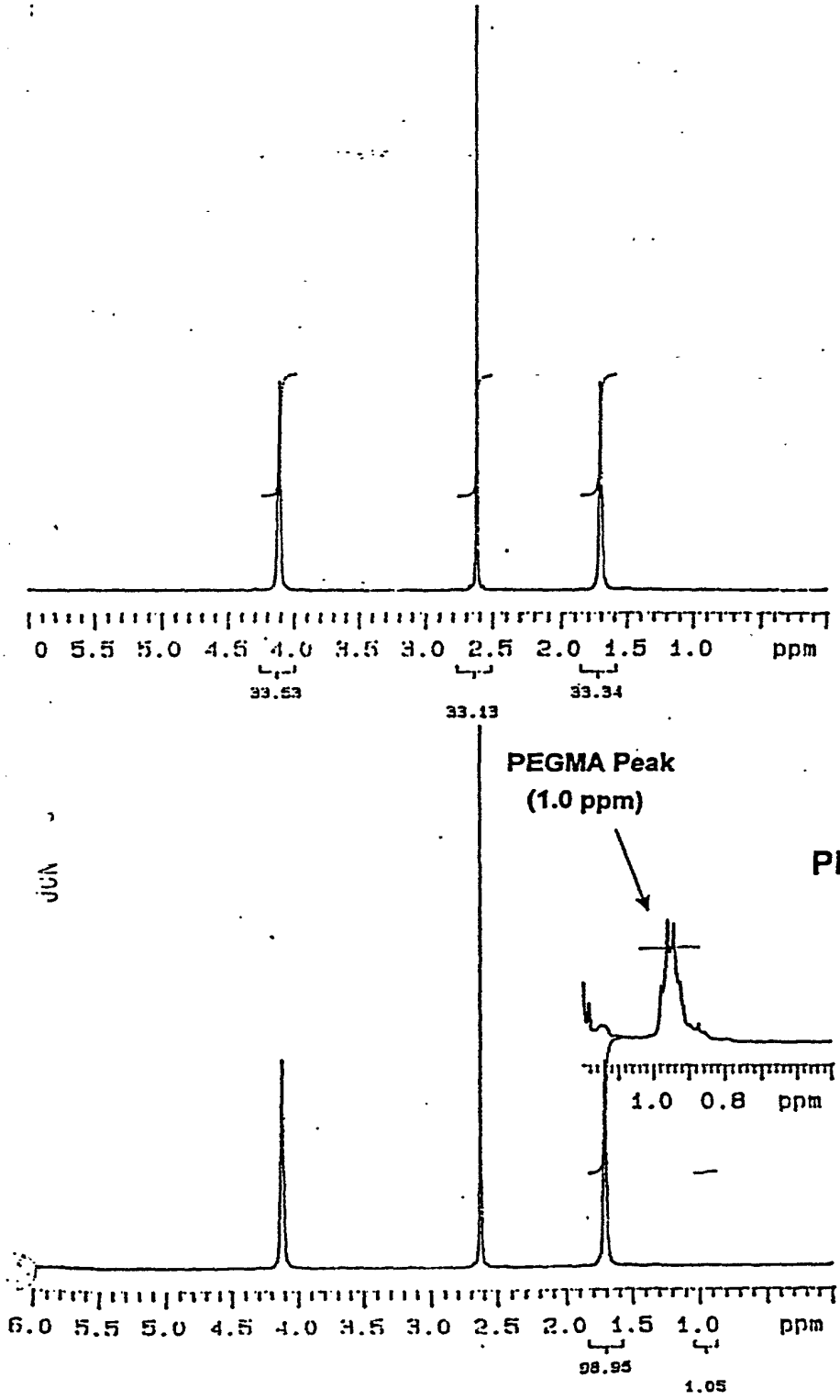


Figure 7 Melt Rheology at 180°C for PBS and PEGMA Grafted PBS (Bionolle® 1040)

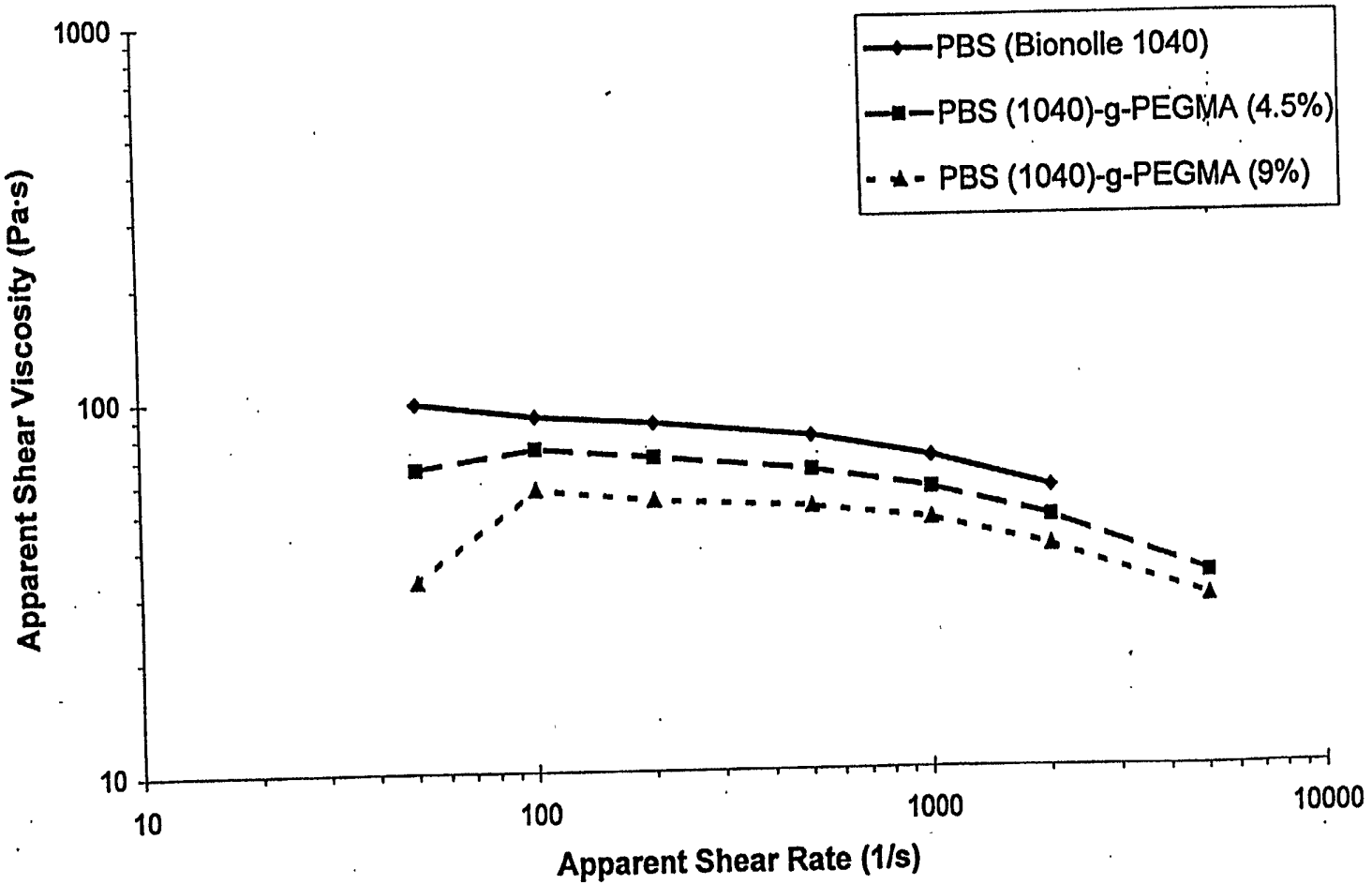


Figure 8 Melt Rheology at 180°C for PBS and HEMA Grafted PBS (Bionolle® 1020)

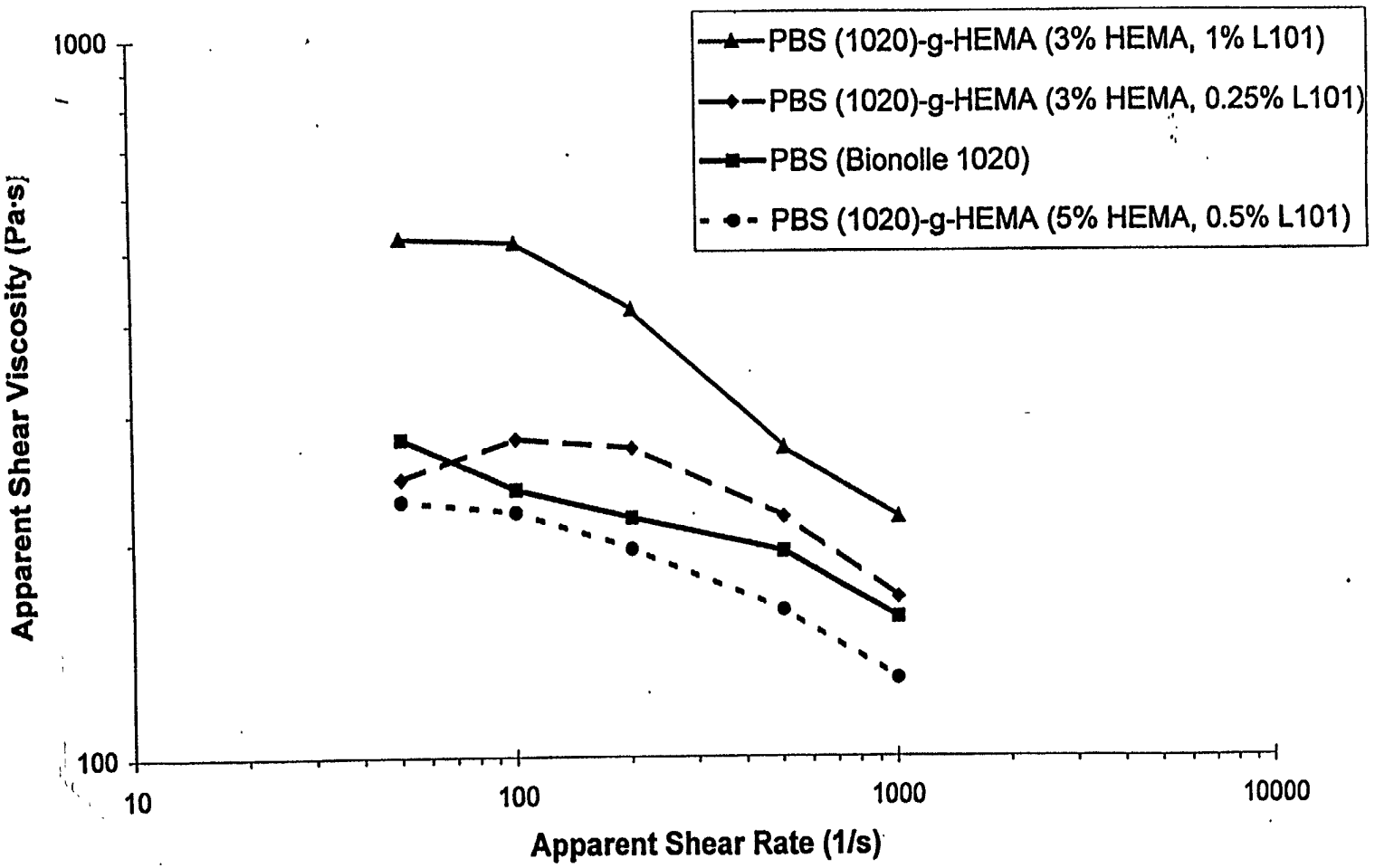
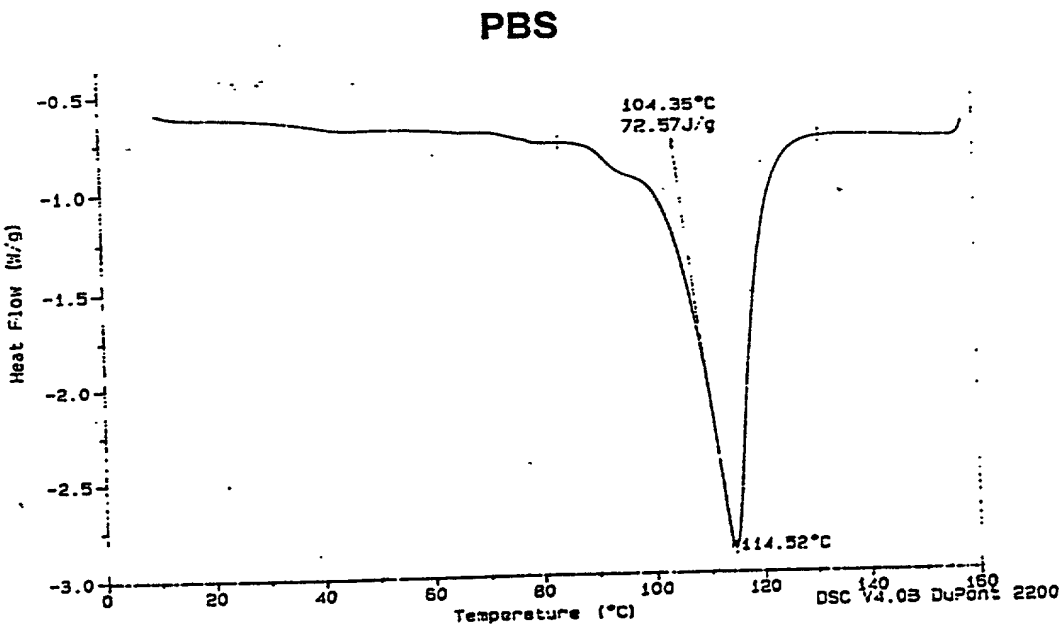


Figure 9 DSC Thermogram for PBS and PEGMA Grafted PBS 1040



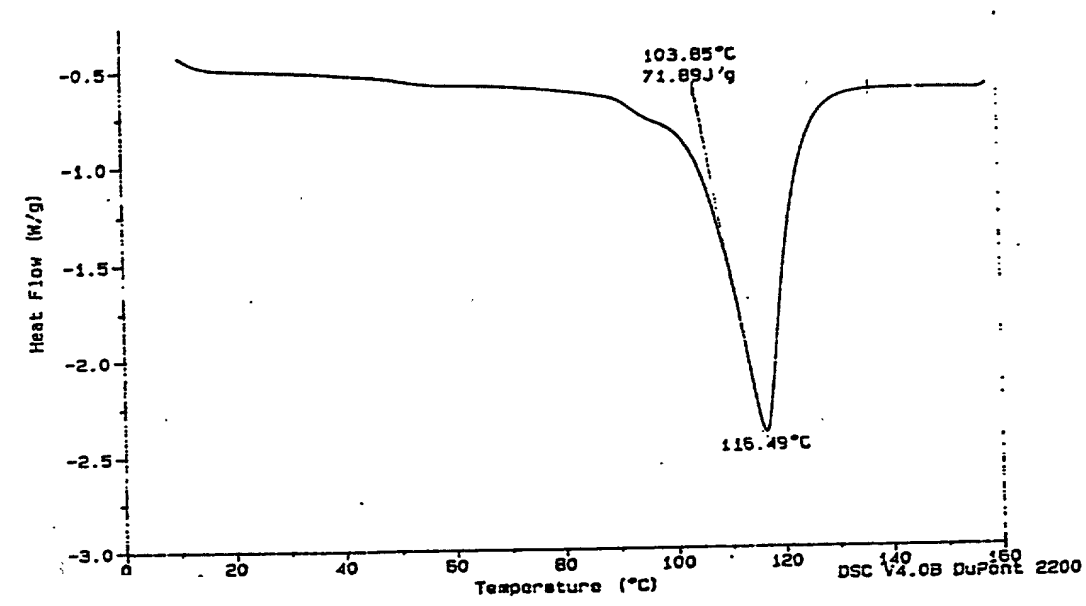


Figure 10 DSC Thermogram for PBS and HEMA Grafted PBS 1020

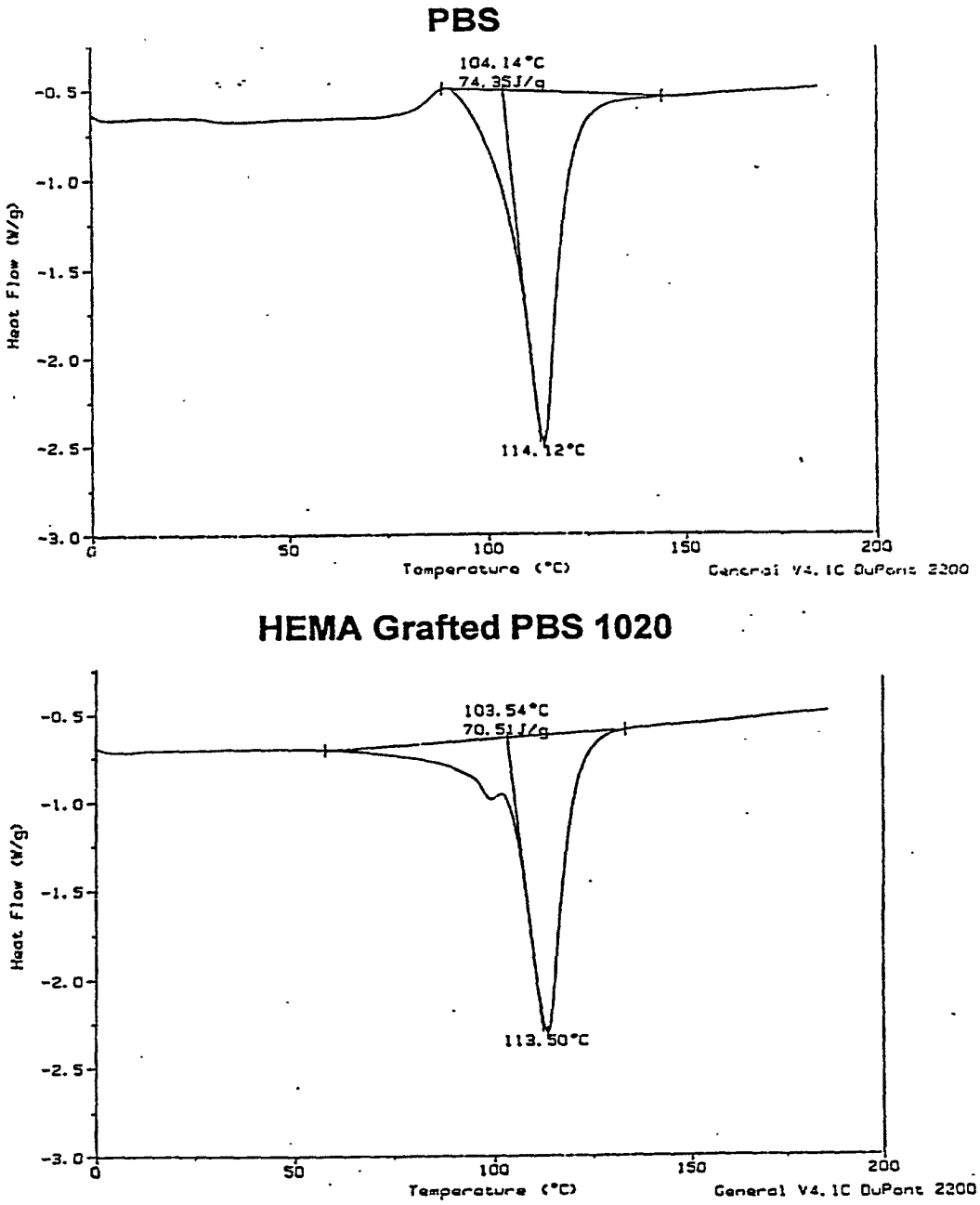


Figure 11

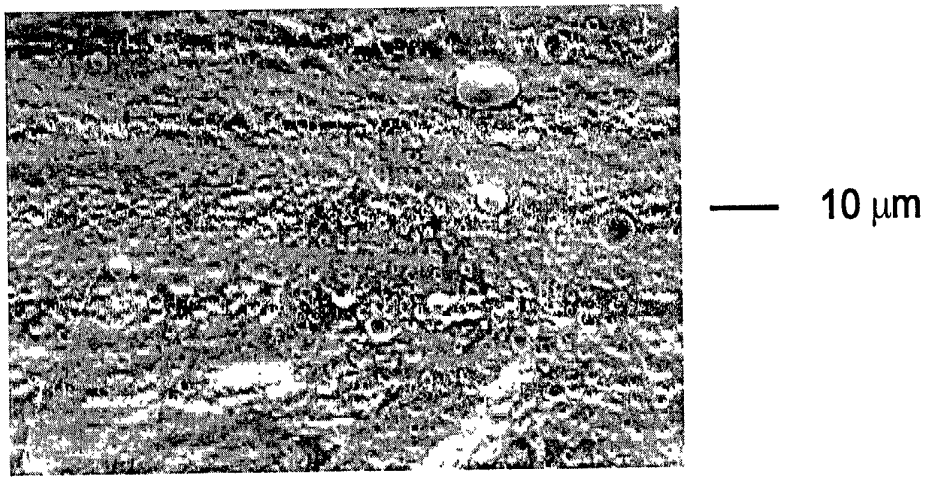


Figure 12

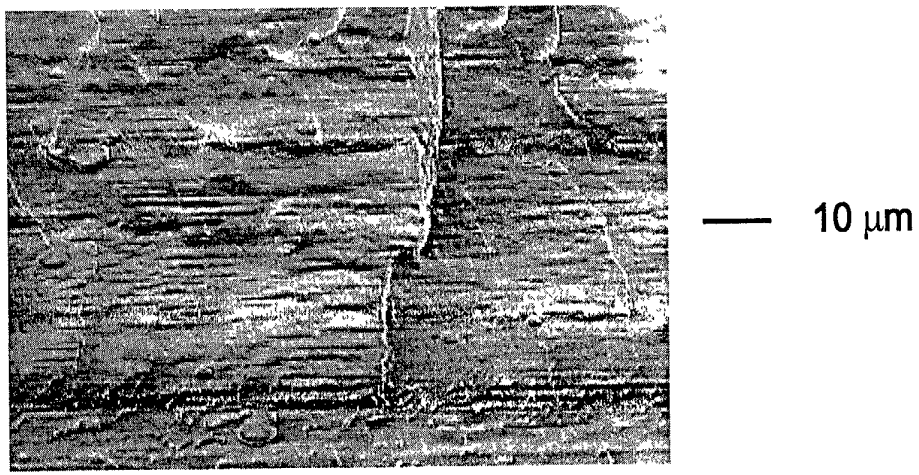


Figure 13

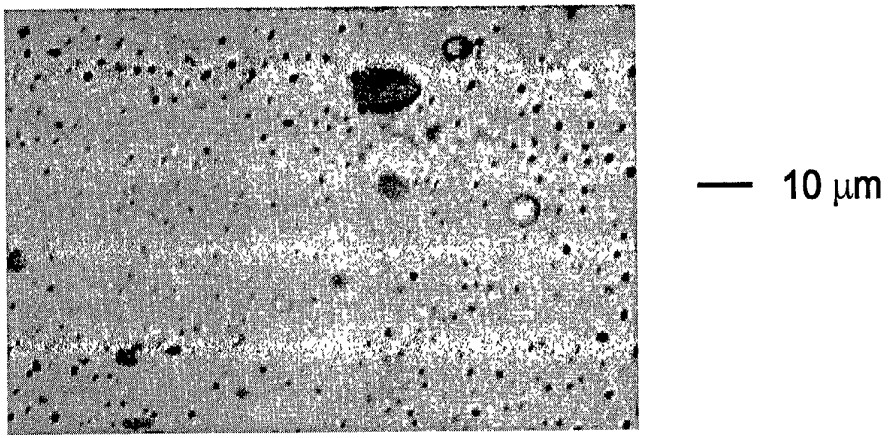


Figure 14

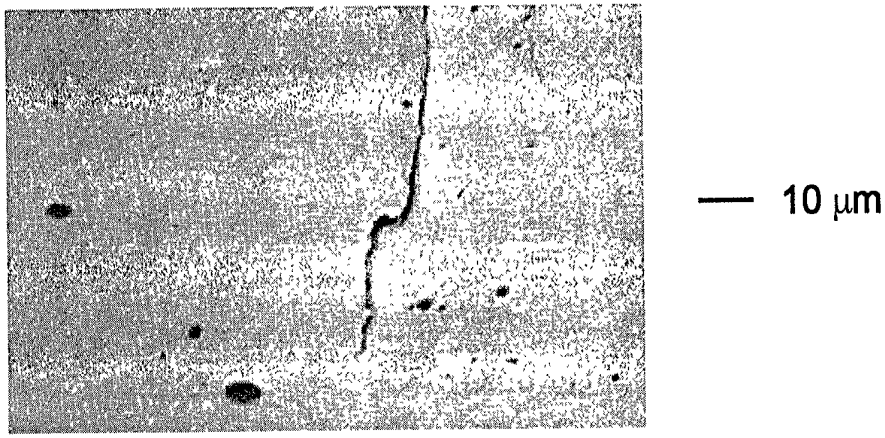


Figure 15

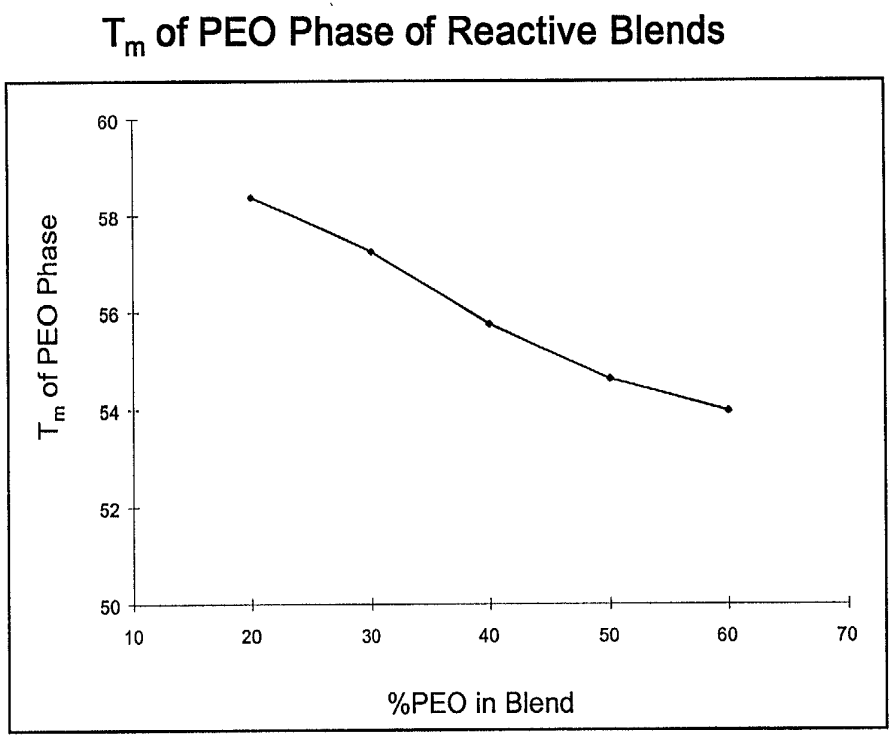

T_m of PEO Phase of Reactive Blends
T_m of PEO Phase
60
58
56
54
52
50
10
20
30
40
50
60
70
%PEO in Blend

Figure 16

ΔT_m= T_m (PEO Phase of Physical Blends) - T_m (Reactive Blends)

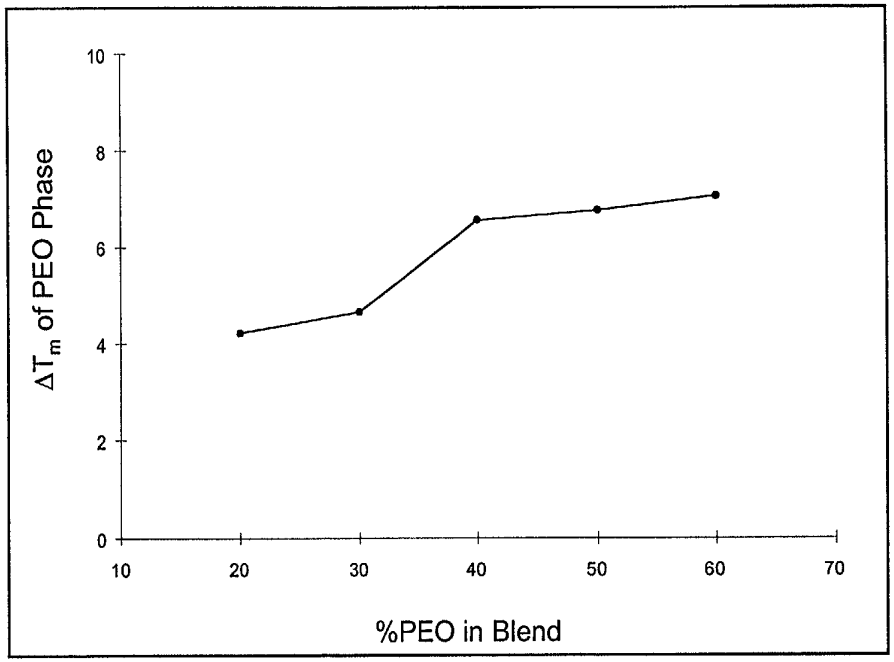
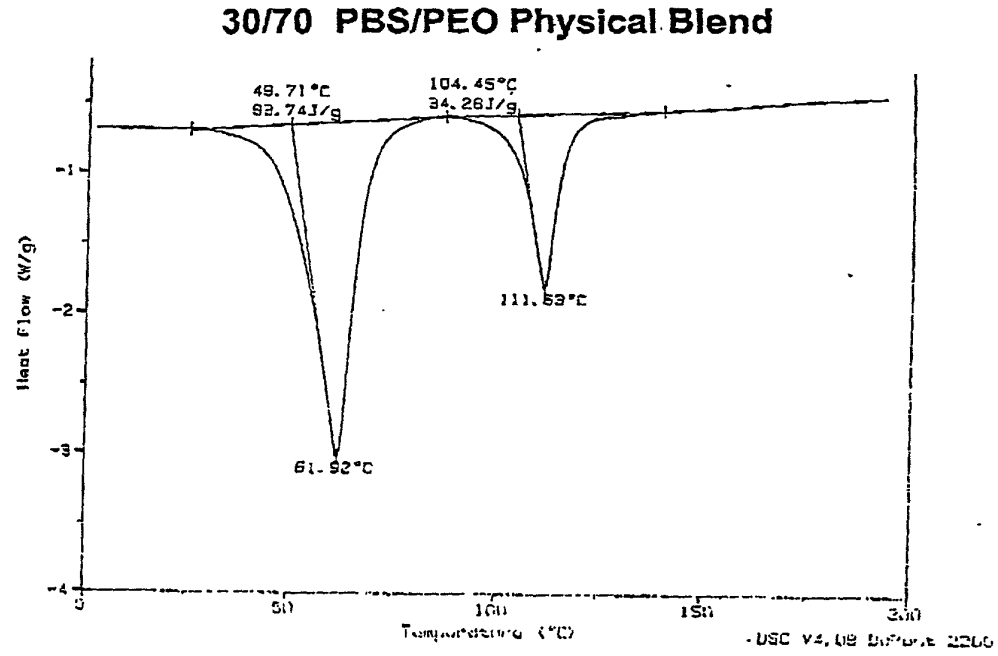


Figure 17 DSC Thermograms for PBS/PEO Physical and Reactive Blends



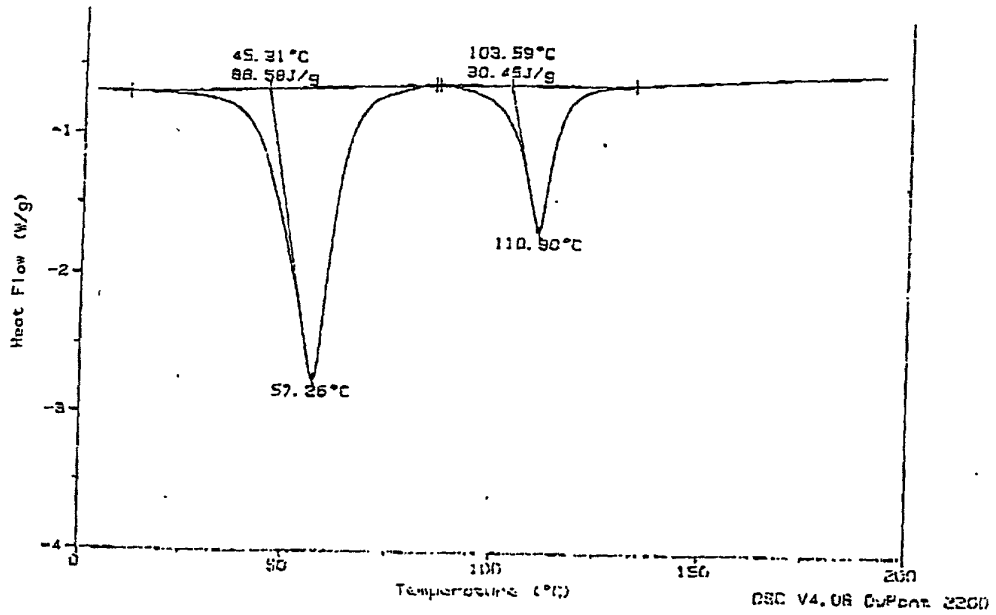


Figure 18 Melt Rheology at 195°C for PBS/PEO Physical and Reactive Blends